

L Number	Hits	Search Text	DB	Time stamp
-	871	rhodanide	USPAT; US-PGPUB	2003/07/26 12:07
-	1104	("12" L?sub.2 "L.sub.2") near3 phase	USPAT; US-PGPUB	2003/07/26 12:08
-	0	rhodanide AND (("12" L?sub.2 "L.sub.2") near3 phase)	USPAT; US-PGPUB	2003/07/26 12:08
-	26034	thiocyan\$4 sulfocyan\$4 sulphocyan\$4	USPAT; US-PGPUB	2003/07/26 12:09
-	3	((("12" L?sub.2 "L.sub.2") near3 phase) and (thiocyan\$4 sulfocyan\$4 sulphocyan\$4) ("6090762") or ("6177396")).PN.	USPAT; US-PGPUB	2003/07/26 12:24
-	2		USPAT; US-PGPUB	2003/07/26 12:30
-	29	("3077469" "3498943" "3668230" "3772382" "3776874" "3839405" "3922230" "4095035" "4132735" "4460480" "4488981" "4515704" "4618446" "4659497" "4663069" "4675127" "4793943" "4871467" "5008032" "5071586" "5073285" "5077329" "5118439" "5198353" "5242615" "5269960" "5489397" "5744441" "5952285").PN.	USPAT	2003/07/26 12:30
-	29	("3077469" "3498943" "3668230" "3772382" "3776874" "3839405" "3922230" "4095035" "4132735" "4460480" "4488981" "4515704" "4618446" "4659497" "4675127" "4793943" "4871467" "5008032" "5071586" "5073285" "5077329" "5147576" "5198353" "5269960" "5429754" "5489397" "5494602" "5597508" "5602092").PN.	USPAT; US-PGPUB	2003/07/26 12:41
-	34	((("3077469" "3498943" "3668230" "3772382" "3776874" "3839405" "3922230" "4095035" "4132735" "4460480" "4488981" "4515704" "4618446" "4659497" "4675127" "4793943" "4871467" "5008032" "5071586" "5073285" "5077329" "5118439" "5198353" "5242615" "5269960" "5489397" "5494602" "5597508" "5602092").PN.) ("3077469" "3498943" "3668230" "3772382" "3776874" "3839405" "3922230" "4095035" "4132735" "4460480" "4488981" "4515704" "4618446" "4659497" "4675127" "4793943" "4871467" "5008032" "5071586" "5073285" "5077329" "5147576" "5198353" "5269960" "5429754" "5489397" "5494602" "5597508" "5602092").PN.)	USPAT; US-PGPUB	2003/07/26 12:30
-	26451	rhodanide (thiocyan\$4 sulfocyan\$4 sulphocyan\$4)	USPAT; US-PGPUB	2003/07/26 12:30

-	0	(((("3077469" "3498943" "3668230" "3772382" "3776874" "3839405" "3922230" "4095035" "4132735" "4460480" "4488981" "4515704" "4618446" "4659497" "4663069" "4675127" "4793943" "4871467" "5008032" "5071586" "5073285" "5077329" "5118439" "5198353" "5242615" "5269960" "5489397" "5744441" "5952285").PN.) (("3077469" "3498943" "3668230" "3772382" "3776874" "3839405" "3922230" "4095035" "4132735" "4460480" "4488981" "4515704" "4618446" "4659497" "4675127" "4793943" "4871467" "5008032" "5071586" "5073285" "5077329" "5147576" "5198353" "5269960" "5429754" "5489397" "5494602" "5597508" "5602092").PN.)) and (rhodanide (thiocyan\$4 sulfocyan\$4 sulphocyan\$4)) ((510/417) or (510/421)).CCLS.	USPAT; US-PGPUB	2003/07/26 12:30
-	1517			
-	15	(rhodanide (thiocyan\$4 sulfocyan\$4 sulphocyan\$4)) and (((510/417) or (510/421)).CCLS.)	USPAT; US-PGPUB USPAT; US-PGPUB	2003/07/26 12:42 2003/07/26 12:42

L Number	Hits	Search Text	DB	Time stamp
-	379	hawkins-J\$.in.	EPO; JPO; DERWENT	2003/07/25 15:11
-	5086	thiocyanate	EPO; JPO; DERWENT	2003/07/25 15:16
-	5499	hawkins-J\$.in. anad thiocyanate	EPO; JPO; DERWENT	2003/07/25 15:11
-	1	hawkins-J\$.in. and thiocyanate	EPO; JPO; DERWENT	2003/07/25 15:12
-	3	stucture\$ and surfactant	EPO; JPO; DERWENT	2003/07/25 15:34
-	1	ep-79646-\$.did.	EPO; JPO; DERWENT	2003/07/25 16:10
-	22618	thiocyanate	USPAT; US-PGPUB	2003/07/25 15:16
-	1	("4530780").PN.	USPAT; US-PGPUB	2003/07/25 15:16
-	0	thiocyanate and ("4530780").PN.)	USPAT; US-PGPUB	2003/07/25 15:17
-	2	WO-9100331-\$.did.	EPO; JPO; DERWENT	2003/07/25 15:39
-	2	WO-9109107-\$.did.	EPO; JPO; DERWENT	2003/07/25 15:41
-	2	WO-9116409-\$.did.	EPO; JPO; DERWENT	2003/07/25 15:52
-	2	ep-346995-\$.did.	EPO; JPO; DERWENT	2003/07/25 15:54
-	2	ep-328176-\$.did.	EPO; JPO; DERWENT	2003/07/25 15:58
-	2	ep-328177-\$.did.	EPO; JPO; DERWENT	2003/07/25 16:00
-	0	gb1068554-\$.did.	EPO; JPO; DERWENT	2003/07/25 16:00
-	1	gb-1068554-\$.did.	EPO; JPO; DERWENT	2003/07/25 16:01
-	2	ep-354010-\$.did.	EPO; JPO; DERWENT	2003/07/25 16:05
-	0	ep-079646-\$.did.	EPO; JPO; DERWENT	2003/07/25 16:06
-	2	fifty adj mole adj ethoxylate	USPAT; US-PGPUB	2003/07/25 16:17
-	22618	thiocyanate	USPAT; US-PGPUB	2003/07/25 16:14
-	0	(fifty adj mole adj ethoxylate) and thiocyanate	USPAT; US-PGPUB	2003/07/25 16:14
-	3	fifty near3 ethoxylate	USPAT; US-PGPUB	2003/07/25 16:20
-	2	thirty near3 ethoxylate	USPAT; US-PGPUB	2003/07/25 16:21
-	0	forty near3 ethoxylate	USPAT; US-PGPUB	2003/07/25 16:22
-	3	sixty near3 ethoxylate	USPAT; US-PGPUB	2003/07/25 16:23

DERWENT-ACC-NO: 1983-52014K

DERWENT-WEEK: 198322

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TITLE: Stabilised aq. liq. detergent
suspension compsns. -
electrolytes contg. salting-out and auxiliary

INVENTOR: TOET, W K; VANDEPAS, J C ; VANVOORST, V F

PATENT-ASSIGNEE: UNILEVER NV[UNIL]

PRIORITY-DATA: 1981GB-0034409 (November 16, 1981)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
EP 79646 A		May 25, 1983	E
013	N/A		
AU 8290441 A		May 26, 1983	N/A
000	N/A		
CA 1197160 A		November 26, 1985	N/A
000	N/A		
DE 3271270 G		June 26, 1986	N/A
000	N/A		
EP 79646 B		May 21, 1986	E
000	N/A		
JP 58089698 A		May 28, 1983	N/A
000	N/A		
JP 86009355 B		March 22, 1986	N/A
000	N/A		
US 4530780 A		July 23, 1985	N/A
000	N/A		
ZA 8208328 A		May 14, 1984	N/A
000	N/A		

DESIGNATED-STATES: DE FR GB IT DE FR GB IT

CITED-DOCUMENTS: No-SR.Pub; BE 550746 ; DE 1152779 ; DE
1964026 ; EP 13585
; EP 28894 ; EP 30986 ; EP 47015 ; US 3574122

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
EP 79646A		N/A	
1982EP-0201394		November 8, 1982	
US 4530780A		N/A	
1982US-0439959		November 8, 1982	
ZA 8208328A		N/A	
1982ZA-0008328		November 12, 1982	

INT-CL (IPC): C11D001/83, C11D003/24 , C11D009/20 ,
C11D017/00

ABSTRACTED-PUB-NO: EP 79646A

BASIC-ABSTRACT:

Aq. liq. detergent compsns. (suspension type) consisting of a nonionic detergent (I) (and/or deriv.) mixed with an anionic detergent (II) and/or a cationic detergent (III), and electrolytes (IV) is improved by using as (IV):
(a) one or more electrolytes having a salting out effect on (I) (or deriv.);
and (b) one or more auxiliary electrolytes of lyotropic no. 9.5 or above.

Compsns. contain (by wt.) 1-60% pref. 3-50% esp. 5-30% (IVa); 0.5-35% pref. 1-30% esp. 2-25% (IVb); 1.5-70% total (IV); and 2-50% pref. 5-35% total detergents (pref. (I) with (II) in ratio 1-10:10-1, pref. 1:1-5). (IVa) is pref. Na tripolyphosphate or Na (di)silicate. (IVb) is pref. MCl, MI, MBr, MClO₃, MClO₄, MN₃ or M rhodanide (M is alkali metal) of lyotropic no. 9.5-14, pref. 9.5-13.3.

The compsns. have improved stability.

ABSTRACTED-PUB-NO: EP 79646B

EQUIVALENT-ABSTRACTS:

Aq. liq. detergent compsns. (suspension type) consisting of

a nonionic detergent (I) (and/or deriv.) mixed with an anionic detergent (II) and/or a cationic detergent (III), and electrolytes (IV) is improved by using as (IV):

(a) one or more electrolytes having a salting out effect on (I) (or deriv.); and (b) one or more auxiliary electrolytes of lyotropic no. 9.5 or above.

Compsns. contain (by wt.) 1-60% pref. 3-50% esp. 5-30% (IVa); 0.5-35% pref. 1-30% esp. 2-25% (IVb); 1.5-70% total (IV); and 2-50% pref. 5-35% total detergents (pref. (I) with (II) in ratio 1-10:10-1, pref. 1:1-5). (IVa) is pref. Na tripolyphosphate or Na (di)silicate. (IVb) is pref. MCl, MI, MBr, MClO₃, MClO₄, MN₃ or M rhodanide (M is alkali metal) of lyotropic no. 9.5-14, pref. 9.5-13.3.

The compsns. have improved stability. (13pp)

US 4530780A

Aq. built liq. detergent suspending-type compsn. comprises (i) 5-35 wt.% of detergent active material, and (ii) an electrolyte mixt.

Component (i) comprises (a) tert. amine oxide, alkylene oxide condensation prod. of alcohol, alkyl phenol, fatty acid, and/or fatty acid amide as a nonionic detergent active material; and (b) an anionic- and/or cationic detergent active material; in wt. ratio (a):(b) of 1:1-5. Component (ii) comprises (a) 5-30 wt.% of alkali metal or ammonium salt of orthophosphate, pyrophosphate, tripolyphosphate, silicate, disilicate, borate, carbonate, sulphate, citrate, nitrilotriacetate, and/or carboxymethyloxy succinate, as electrolyte having a salting-out effect on (a); and (d) 2-25 wt.% of alkali metal or ammonium salt of iodide, chlorate, perchlorate, rhodonide, nitrate,

bromide, and/or chlorate, as auxiliary electrolyte having lyotropic number of 9.5 or more.

USE - For stably suspending insoluble particulate zeolites, abrasive calcite, and/or undissolved particulate builder salts. (4pp)d

TITLE-TERMS: STABILISED AQUEOUS LIQUID DETERGENT SUSPENSION
COMPOSITION CONTAIN
SALT AUXILIARY ELECTROLYTIC

DERWENT-CLASS: D25 E34

CPI-CODES: D11-A11; E05-A; E10-A09B4; E31-C; E31-K06;
E31-P05; E32-A; E32-B;
E33-B; E33-E;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

A100 A111 A940 A960 B105 B114 B115 B701 B702 B711
B712 B713 B720 B803 B815 B831 B832 B833 C106 C108
C316 C500 C530 C540 C710 C730 C801 C802 C803 C804
C805 C807 H103 H181 H401 H481 H581 J0 J013 J1
J173 M280 M311 M313 M321 M323 M332 M342 M343 M344
M349 M381 M391 M393 M411 M416 M510 M520 M530 M540
M620 M630 M782 M903 Q273 Q620 R023

Chemical Indexing M3 *02*

Fragmentation Code

A100 A111 A940 C017 C035 C053 C100 C106 C108 C116
C300 C307 C500 C510 C520 C540 C730 C801 C802 C803
C804 C805 C806 C807 M411 M782 M903 Q273 Q620 R023

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1341U; 1543U ; 1696U ;
1706U ; 1707U ; 1722U
; 1756U ; 1764U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1983-050587